

CLAIMS:

1. An occlusion device comprising:
a center post having a proximal end and a distal end;
a plurality of ribs extending from the proximal end of the center post to the distal end of the center post; and
a sheet attached to the ribs.
2. The occlusion device of claim 1 wherein the center post is formed of titanium.
3. The occlusion device of claim 1 wherein the center post comprises two segments.
4. The center post of claim 3 wherein a first segment of the center post comprises a pin and a second segment of the center post comprises a lumen and wherein the pin of the first segment connects with the lumen of the second segment.
5. The occlusion device of claim 1 wherein the center post further comprises holes through which the ribs attach.
6. The occlusion device of claim 1 wherein the center post is about 5 to about 40 mm long.
7. The occlusion device of claim 1 wherein the ribs are constructed of stranded wire.
8. The occlusion device of claim 7 wherein the stranded wire is heat shaped.

9. The occlusion device of claim 1 wherein the ribs are constructed of a single stranded wire.

10. The occlusion device of claim 9 wherein the stranded wire is heat shaped.

11. The occlusion device of claim 1 wherein the sheet is constructed of PVA foam.

12. The occlusion device of claim 1 wherein the sheet is attached to the ribs with sutures.

13. The occlusion device of claim 1 wherein the sheet is laminated to the ribs.

14. The occlusion device of claim 1 wherein the sheet is treated to be non-thrombogenic.

15. A collapsible occlusion device for the left atrial appendage of a human heart, the device comprising:

a center post having a proximal end and a distal end, wherein both the proximal end and the distal end comprise a plurality of holes;

a single stranded wire threaded through holes in the distal and proximal ends of the center post to form a plurality of ribs;

and

a foam sheet attached to the plurality of ribs.

16. The occlusion device of claim 15 wherein the center post comprises a grasping knob.
17. The occlusion device of claim 15 wherein the center post is formed of titanium.
18. The occlusion device of claim 15 wherein the center post comprises two segments.
19. The center post of claim 18 wherein a first segment of the center post comprises a pin and a second segment of the center post comprises a lumen and wherein the pin of the first segment connects with the lumen of the second segment.
20. The occlusion device of claim 15 wherein the center post is about 5 to about 40 mm long.
21. The occlusion device of claim 15 wherein the ribs are heat shaped.
22. The occlusion device of claim 15 wherein the sheet is constructed of PVA foam.
23. The occlusion device of claim 15 wherein the sheet is attached to the ribs with sutures.
24. The occlusion device of claim 15 wherein the sheet is laminated to the ribs.

25. The occlusion device of claim 15 wherein the sheet is treated to be non-thrombogenic.
27. A left atrial appendage device comprising:
a center post comprising a first end, a second end, and a graspable component;
a plurality of holes located in the first end of the center post;
a plurality of holes located in the second end of the center post;
a single wire extending from the first end of the center post to the second end of the center post and passing through holes in the second end of the center post and first end of the center post to form a plurality of ribs; and
a foam sheet attached to the plurality of ribs.
28. The occlusion device of claim 27 wherein the center post is formed of titanium.
29. The occlusion device of claim 27 wherein the center post comprises two segments.
30. The center post of claim 29 wherein a first segment of the center post comprises a pin and a second segment of the center post comprises a lumen and wherein the pin of the first segment connects with the lumen of the second segment.
31. The occlusion device of claim 27 wherein the length of the center post is about 5 to about 40 mm long.

32. The occlusion device of claim 27 wherein the ribs are constructed of stranded wire.

33. The occlusion device of claim 27 wherein the ribs are heat shaped.

34. The occlusion device of claim 27 wherein the foam sheet is constructed of PVA foam.

35. The occlusion device of claim 27 wherein the foam sheet is attached to the ribs by sutures.

36. The occlusion device of claim 27 wherein the foam sheet is attached to the ribs by heat laminating.

37. The occlusion device of claim 27 wherein the foam sheet is treated to be non-thrombogenic.

38. An occlusion device comprising:
a center post having a proximal end and a distal end;
a plurality of ribs extending from the proximal end of the center post to the distal end of the center post to create a pear shaped frame; and
a sheet attached to the ribs.

39. The occlusion device of claim 38 wherein the center post is formed of titanium.

40. The occlusion device of claim 38 wherein the center post comprises two segments.

41. The center post of claim 38 wherein a first segment of the center post comprises a pin and a second segment of the center post comprises a lumen and wherein the pin of the first segment connects with the lumen of the second segment.

42. The occlusion device of claim 38 wherein the center post further comprises holes through which the ribs attach.

43. The occlusion device of claim 38 wherein the center post is about 5 to about 40 mm long.

44. The occlusion device of claim 38 wherein the ribs are constructed of a single stranded wire.

45. The occlusion device of claim 38 wherein the ribs are heat shaped.

46. The occlusion device of claim 38 wherein the sheet is constructed of PVA foam.

47. The occlusion device of claim 38 wherein the sheet is attached to the ribs with sutures.

48. The occlusion device of claim 38 wherein the sheet is laminated to the ribs.

49. The occlusion device of claim 38 wherein the sheet is treated to be non-thrombogenic.

50. A method of occluding a left atrial appendage comprising:
collapsing a pear shaped occlusion device having a plurality of ribs
and a sheet attached to the plurality of ribs;
loading the collapsed occlusion device inside a catheter;
advancing the catheter to the left atrial appendage;
advancing the collapsed occlusion device through the catheter to the
left atrial appendage;
pushing the occlusion device out of the catheter and into the left
atrial appendage; and
positioning the device in the left atrial appendage with the occlusion
device so that the ribs of a narrower end of the pear shaped
occlusion device expand against interior walls of the left
atrial appendage and the ribs at a wider end of the pear
shaped occlusion device expand against the interior walls
and opening of the left atrial appendage and the sheet
prevents passage of blood to and from the left atrial
appendage.

51. The method of claim 50 and further comprising piercing a septum
to allow the catheter to reach the left atrial appendage.

52. The method of claim 50 wherein advancing the catheter includes
passing the catheter through a septal defect to reach the left atrial appendage.

53. The method of claim 50 wherein the sheet is treated to be non-thrombogenic.